Abstract given withen restriction

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NCH2CONH(CH2)3F NO2

We report on the prepn. of a hypoxia marker 2-(2-nitroimidazol-1[H]-yl)-N-

Ι

(3-fluoropropyl)acetamide (EF1, I) and its 18F analog. Two methods for the prepn. of 3-fluoropropylamine, the EF1 side chain, are described. [18F]-EF1 was prepd. with a radiochem. yield of 2% by nucleophilic substitution of bromine in 2-(2-nitroimidazol-1[H]-yl)-N-(3bromopropyl)acetamide (EBr1) by carrier-added 18F in DMSO at 120.degree.. Our results demonstrate the prepn. of clin. relevant amts. of [18F]-EF1 for use as a non-invasive hypoxia marker with detection using positron emission tomog.

ΙT 252736-27-9P

> RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (prepn. and reaction with fluoride)

252736-27-9 CAPLUS RN

CN 1H-Imidazole-1-acetamide, N-(3-bromopropyl)-2-nitro- (9CI) NAME)

ΙT 252736-28-0P 252736-29-1P

RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)

RN 252736-28-0 CAPLUS CN 1H-Imidazole-1-acetamide, N-(3-fluoropropyl)-2-nitro- (9CI) (CA INDEX NAME)

RN 252736-29-1 CAPLUS

CN 1H-Imidazole-1-acetamide, N-[3-(fluoro-18F)propyl]-2-nitro- (9CI) (CA INDEX NAME)

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33

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